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- 1 [Enhancing the security of corporate Wi-Fi networks using DAIR](#)  
 Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Ma Wolman, Brian Zill  
 June 2006 **MobiSys '06**: Proceedings of the 4th international conference on applications and services

**Publisher:** ACM

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 Full text available: [Pdf \(302.26 KB\)](#) [Additional Information: full citation, abstract, referer](#)
**Bibliometrics:** Downloads (6 Weeks): 95, Downloads (12 Months): 426, Citations

We present a framework for monitoring enterprise wireless networks us infrastructure. The framework is called DAIR, which is short for *Dense & Inexpensive Radios*. We demonstrate that the DAIR framework is useful

**Keywords:** 802.11, denial-of-service, rogue AP, security, wireless network

- 2 [Scheduling best-effort and real-time pipelined applications on time-slots](#)  
 Yanyong Zhang, Anand Sivasubramanian  
 July 2001 **SPAA '01**: Proceedings of the thirteenth annual ACM symposium on algorithms and architectures

**Publisher:** ACM

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 Full text available: [Pdf \(252.82 KB\)](#) [Additional Information: full citation, abstract, referer, terms](#)
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Two important emerging trends are influencing the design, implementation and deployment of high performance parallel systems. The first is on the architecture where both economic and technological factors are compelling the use of

**Keywords:** clusters, coscheduling, parallel scheduling, simulation

- 3 [The effects of active queue management and explicit congestion notification on performance](#)  
 Long Le, Jay Aikati, Kevin Jeffay, F. Donelson Smith  
 December 2007 **IEEE/ACM Transactions on Networking (TON)**, Volume 15, Number 6  
**Publisher:** IEEE Press

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**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 115, Citation

We present an empirical study of the effects of active queue management explicit congestion notification (ECN) on the distribution of response time users browsing the Web. Three prominent AQM designs are considered: Proportional ...

#### 4 [A taxonomy and design considerations for Internet accounting](#)

 Michel Kouadio, Udo Pooch

November 2002 **SIGCOMM Computer Communication Review**, Volume 32

**Publisher:** ACM


Full text available:  Pdf (113.51 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 79, Citation

Economic principles are increasingly being suggested for addressing some related to distributed resource allocation for QoS (Quality of Service) proposals have been put forth, including various strategies from Pricing

**Keywords:** accounting architecture, classification, pricing

#### 5 [Web100: extended TCP instrumentation for research, education and](#)

 Matt Mathis, John Heffner, Raghu Reddy

July 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue

**Publisher:** ACM


Full text available:  Pdf (215.29 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 52, Citation

TCP has become the dominant protocol for all network data transport because a simple uniform data delivery service which is sufficient for most application types of lower network layers. By its very nature, TCP's adaption and re


**Keywords:** Net100, TCP Performance, Web100, instrumentation

#### 6 [Outdoor experimental comparison of four ad hoc routing algorithms](#)

 Robert S. Gray, David Kotz, Calvin Newport, Nikita Dubrovsky, Aaron Fiske, Christopher Masone, Susan McGrath, Yougu Yuan

October 2004 **MSWiM '04: Proceedings of the 7th ACM international symposium on analysis and simulation of wireless and mobile systems**

**Publisher:** ACM 

Full text available:  Pdf (148.16 KB) Additional Information: full citation, abstract, referer, terms

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 76, Citation

Most comparisons of wireless ad hoc routing algorithms involve simulated runs, or outdoor runs with only a small number of nodes, potentially leading to an incorrect picture of algorithm performance. In this paper, we report on


**Keywords:** 802.11, MANET, mobile computing, wireless ad hoc routing

7 [Enhancing location privacy in wireless LAN through disposable interl quantitative analysis](#)

Marco Gruteser, Dirk Grunwald

June 2005 **Mobile Networks and Applications** , Volume 10 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (2.31 MB) Additional Information: full citation, abstract, referer terms, review

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 107, Citation

The recent proliferation of wireless local area networks (WLAN) has introduced location privacy risks. An adversary controlling several access points can determine a client's position. In addition, interface identifiers uniquely identify each

**Keywords:** location privacy, wireless LAN

8 [Tunable reliable multicast for periodic information dissemination](#)

Tina Wong, Thomas Henderson, Randy H. Katz

January 2002 **Mobile Networks and Applications** , Volume 7 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (420.83 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation

Existing reliable transport protocols for periodic information dissemination lack application semantics while attempting to be 100% reliable. "Application Framing" (ALF) suggests that taking application semantics into account in transport ...

**Keywords:** bandwidth constraint, content delivery, power constraint, power, wireless device

9 [Cooperative run-time management of adaptive applications and distributed](#)

 Christian Pöschl, Hasan Abbasi, Karsten Schwan

December 2002 **MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (434.38 KB) Additional Information: full citation, abstract, referer


**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 40, Citation

This paper presents *Q-fabric*, which is a set of lightweight, kernel-level mechanisms for cooperative, distributed resource management and system/application-level coordination. The basis of *Q-fabric* is its kernel-level, anonymous, asynchronous event ...

**Keywords:** OS services, QoS management, adaptation, event service

10

[A Flow Control Framework for Improving Throughput and Energy Efficiency in CSMA/CA based Wireless Multihop Networks](#)

Jaya Shankar Pathmasuntharam, Amitabha Das, Prasani Mohapatra  
 June 2006 **WOWMOM '06**: Proceedings of the 2006 International Symposium  
 Wireless, Mobile and Multimedia Networks  
**Publisher**: IEEE Computer Society  
 Full text available:  Pdf (302.49 KB) Additional Information: full citation, abstract, referer

**Bibliometrics**: Downloads (6 Weeks): 5, Downloads (12 Months): 36, Citation

In a CSMA/CA based multihop wireless network, excessive interference potential forwarding node causes severe blocking and reduction in throughput. Unbalanced interference forces the node to consume more time receiving rather than transmitting.

# 11 [Packet-level diversity - from theory to practice: an 802.11-based experimental investigation](#)



Evangelos Vergetis, Eric Pierce, Marc Blanco, Roch Guérin  
 September 2006 **MobiCom '06**: Proceedings of the 12th annual international conference on Mobile computing and networking

**Publisher**: ACM  Request Permissions  
 Full text available:  Pdf (351.90 KB) Additional Information: full citation, abstract, referer

**Bibliometrics**: Downloads (6 Weeks): 8, Downloads (12 Months): 85, Citation



Packet-level diversity, or distributing packet transmissions over multiple channels, offers benefits in improving communication performance and channel variations. Previous works have analyzed and quantified those I

**Keywords**: 802.11, channel diversity, open-loop, robustness

# 12 [A wireless sensor network For structural monitoring](#)



Ning Xu, Sumit Rangwala, Krishna Kant Chintalapudi, Deepak Ganesan, Ar Govindan, Deborah Estrin  
 November 2004 **SensSys '04**: Proceedings of the 2nd international conference on Sensor networks and embedded systems

**Publisher**: ACM  Request Permissions  
 Full text available:  Pdf (731.28 KB) Additional Information: full citation, abstract, referer terms

**Bibliometrics**: Downloads (6 Weeks): 61, Downloads (12 Months): 444, Citation

Structural monitoring---the collection and analysis of structural responses forced excitation---is an important application of networked embedded systems with significant commercial potential. The first generation of sensor networks

**Keywords**: Wireless, sensor network, structural health monitoring

# 13 [From formal models to formally based methods: an industrial experience](#)



Emanuele Ciapessoni, Piergiorgio Miranda, Alberto Coen-Porisini, Dino Morzenti  
 January 1999 **Transactions on Software Engineering and Methodology**  
 Volume 8 Issue 1

**Publisher**: ACM  Request Permissions

Full text available:  Pdf (239.61 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 105, Citations


We address the problem of increasing the impact of formal methods in industrial computer applications. We summarize the reasons why formal methods did not gain widespread use within the industrial environment despite several

**Keywords:** formal models, industrial applications, object orientation, software supervision and control, technology transfer

#### 14 Video-based rendering


 Marcus Magnor, Marc Pollefeys, German Cheung, Wojciech Matusik, Christy July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Courses**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (5.15 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 263, Citations

#### 15 Dagstuhl perspectives workshop on end-to-end protocols for the future

 Jari Arkko, Bob Briscoe, Lars Eggert, Anja Feldmann, Mark Handley

March 2009 **SIGCOMM Computer Communication Review**, Volume 39 Issue

**Publisher:** ACM


Full text available:  Pdf (144.99 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 35, Downloads (12 Months): 65, Citations

This article summarises the presentations and discussions during a workshop on end-to-end protocols for the future Internet in June 2008. The aim of the workshop is to establish a dialogue at the interface between two otherwise fairly distinct


**Keywords:** architecture, control, cross-layer

#### 16 AIDA: Adaptive application-independent data aggregation in wireless networks

 Tian He, Brian M. Blum, John A. Stankovic, Tarek Abdelzaher

May 2004 **Transactions on Embedded Computing Systems (TECS)**, Volume

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (1.02 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 133, Citations

Sensor networks, a novel paradigm in distributed wireless communication have been proposed for various applications including military surveillance, environmental monitoring. These systems deploy heterogeneous sensor networks to collect data from the environment.

**Keywords:** Data aggregation, adaptive algorithms, congestion control, resource conservation, feedback control, sensor networks

Hardware-dependent software synthesis for many-core embedded s  
Samar Abdi, Gunar Schirner, Ines Viskic, Hansu Cho, Yonghyun Hwang, Lo Gajski

January 2009 **ASP-DAC '09: Proceedings of the 2009 Conference on Asia Design Automation**

**Publisher:** IEEE Press

Full text available:  [Pdf](#) (255.12 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 48, Citation

This paper presents synthesis of Hardware Dependent Software (HdS) for many-core designs using Embedded System Environment (ESE). ESE is developed at UC Irvine, for transaction level design of multicore embedded HdS ...

# 18 Towards a Real-Time Reference Architecture for Autonomic System

Bogdan Solomon, Dan Ionescu, Marin Litoiu, Mircea Mihaescu

May 2007 **SEAMS '07: Proceedings of the 2007 International Workshop on Engineering for Adaptive and Self-Managing Systems**

**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (191.84 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 72, Citation


Autonomic computing aims to embed automation in IT management software can adapt to changes in the configuration, provisioning, protection, and utilization variations of the IT infrastructure at run time. It is, therefore,

# 19 Design Optimization of Multi-Cluster Embedded Systems for Real-Time

Paul Pop, Petru Eles, Zibo Peng, Viacheslav Izoimov, Magnus Hellring, Oks

February 2004 **DATE '04: Proceedings of the conference on Design, automation in Europe - Volume 2**, Volume 2


**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (192.08 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation


We present an approach to design optimization of multi-cluster embedded consisting of time-triggered and event-triggered clusters, interconnected. In this paper, we address design problems which are characteristic to multi

# 20 Firefly-inspired sensor network synchronicity with realistic radio effects

 Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika N

November 2005 **SenSys '05: Proceedings of the 3rd international conference on networked sensor systems**

**Publisher:** ACM [Request Permissions](#)

Full text available:  [Pdf](#) (564.48 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 189, Citation


Synchronicity is a useful abstraction in many sensor network application scheduling, coordinated duty cycling, and time synchronization can make synchronicity primitive that achieves a tight alignment of individual nodes

**Keywords:** biologically inspired algorithms, pulse-coupled oscillators, s  
wireless sensor networks

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